oscillator

initialfreq wave
frequency control ctrl in
fm cv shape
fm in outputs

oscillator

initialfreq wave
frequency control ctrl in
fm cv shape
fm in outputs

peak and trough

input a input a
input b input b
input c input c
peak trough
maximum minimum

diffte

input a
input b
input c
negative
positive

negative slew

rate input input
input cycle
saw pulse

positive slew

rate cv vc
input sustain start
neg pulse saw pulse

Wx

level input level input
wave level cv output
fm

echo

input input vc delay cv delay out
feedback feed cv delay mix mix output

smooth and stepped gen.

cv input smooth out cv input
vc rate rate couple vc rate rate
hold cycle stepped out cycle sample

vcf q

frequency resonance
v/oct input gain
freq cv cv q trig in
cvin q in
Agc Lp Bp
Notch Hp

EM87

input
output

resonant eq

11Khz 5.2Khz input
2.8Khz 1.5Khz gain
777hz 411hz comb up
218hz 115hz comb down
61hz 29hz eq

sample and hold

input clock out

Vca

input gain cv out

Comparator

saw range input out

pulse delay

in out delay width

208 Random/Noise

white noise pink noise lf noise clock
208-1 208-2 208-3 208-4

Slew limiter

rise rise input
fall fall shape output

Xmix

mix input out
input inverted out

Neuton

offset feedback out
input input input

Morphlag

attack decay lin~log
in out inverted

Aux

input Mix mix cv
Send Return Out
Send Return out

Hyper Wien

initial cv in cv
out x out y range

Synthacks